

ABSTRACT OF THE DISCLOSURE

Phosphor **8** is attached to window portion **6** of housing vessel **7** in light-emitting diode **20**. Blue excitation light **9** emitted from blue light-emitting diode chip **4** is irradiated on phosphor **8**, and part of excitation light **9** is absorbed by phosphor **8**, which converts its wavelength and produces yellow fluorescence **9a** to be emitted outward from light-emitting diode **20**. In addition, part of excitation light **9** also passes through phosphor **8** and becomes transmitted excitation light **9b**, which is then emitted outward from light-emitting diode **20**. Yellow fluorescence **9a** and blue transmitted excitation light **9b** blend to become white light **10**.